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# Terms of Reference

# Electricity Reform Strategy Support

# Energy efficiency consultant

## General Scope

*<Rationale for the project, sectors to be assess, energy situation in the country.>*

The consultant will work under the directions of the [donor] project team. His/her services will be rendered intermittently during the period starting from the date of signing of the contract to [date]. As a part of this assignment, the consultant will liaise closely with the [donor] project team, the [energy conservation center] in the [country] at the [general directorate in charge of electrical power resources survey] and the [ministry in charge of energy and natural resources].

In order to complete this work, the consultant will also coordinate with, and obtain necessary information and inputs from, other Government agencies, private and public sector entities, NGOs, research institutions, international organizations, and donors that are actively involved in this area.

The consultant will prepare and submit a draft report on a comprehensive assessment of demand-side energy efficiency potential and opportunities, by [date]. He/she will also be available to discuss and coordinate this work and its outputs with the [donor] project team during its next mission (tentatively scheduled for [date]) and then finalize the report by [date].

## Specific Tasks

The local consultant will be responsible for implementing the following specific tasks during his/her assignment:

1. Conduct a thorough review of existing, recent studies, and other relevant reports available in the public domain (such as those prepared by the [ministry in charge of energy and natural resources], other Government agencies, private and public sector entities, NGOs, research institutions, international organizations, donors); and consolidate the necessary information on energy savings potential for each of the electricity consuming end use (demand-side) sectors (such as large industry, small and medium scale industry, commercial, public/municipality, residential, etc.). The draft report should include a complete list of data/information sources reviewed by the consultant.
2. Based on (a) above, prepare a comprehensive assessment of potential energy efficiency improvement opportunities and estimated energy savings associated with different measures in each of the sectors/ sub-sectors/ end-uses. For getting a clear picture of the available potential, and depending upon the availability of the necessary information and data, the assessment will be conducted at a disaggregated end-use level as much as possible. For example, within the public buildings sector, potential savings should be assessed at the level of disaggregation corresponding with feasible measures for specific end uses like lighting, space conditioning, appliances, building envelope measures in both existing and new buildings. Similarly, for instance in large industry sector, the disaggregation should be at sub-sector level (such as, cement, iron and steel, ceramic, textiles, etc.) as well as in terms of specific energy saving measures at end-use level (such as efficient motors, efficient compressors, process improvements, etc.). While presenting the estimates for energy efficiency potential for these sectors, sub-sectors and end-uses, the consultant will clearly identify the basis of the estimates in terms of the benchmarks and indicators used (that is, the comparison with either international, EU or local best practices). To the extent possible, the assessment should provide costs and benefits of all the identified potential energy saving opportunities.

Furthermore, the report should clearly distinguish and provide the information on energy efficiency improvement potential in terms of both technical potential and commercially viable potential, for sectors, sub-sectors and end-uses reviewed. Finally, the assessment should also specify the business-as-usual energy consumption and consumption under improved energy efficiency regime, vis-à-vis different economic growth scenarios.

1. Complete and submit by [date] (for review by the project team and other relevant stakeholders) a draft report on sectoral energy efficiency potential, prepared along the lines described in (b) above.
2. Coordinate with the [donor] project team and key country counterparts to obtain inputs and feedback on the draft report.
3. Incorporate the comments to revise the draft report, and submit the final version by [date].
4. Provide assistance for organizing workshops/ meetings, to be participated by all relevant stakeholders, to discuss and disseminate the findings of this activity.

## Schedule of Deliverables

The consultant will prepare and submit the following deliverables:

* Draft report by [date]
* Final report by [date]

## Payment Terms

The payment will be made to the consultant as per the following terms:

* Signing of Contract: 10%
* Completion and submission of Draft Report: 60%
* Completion and submission of Final Report: 30%